

2011-06-22 Wednesday Morning Notes

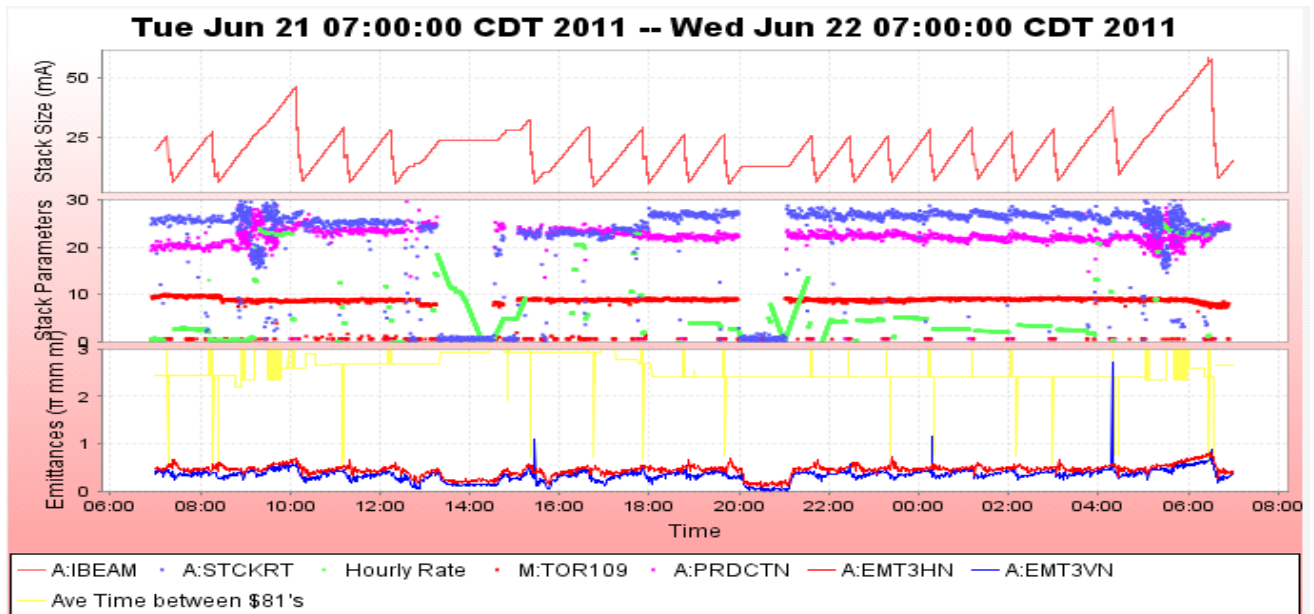
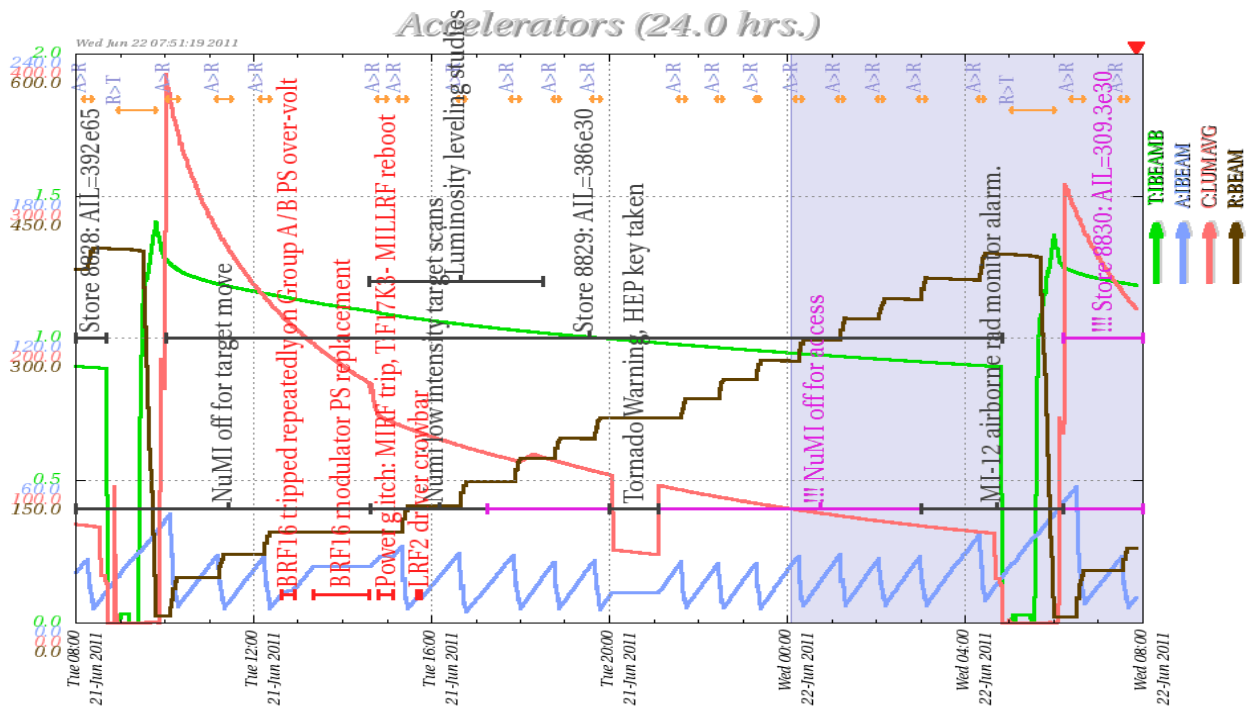
Wednesday, June 22, 2011

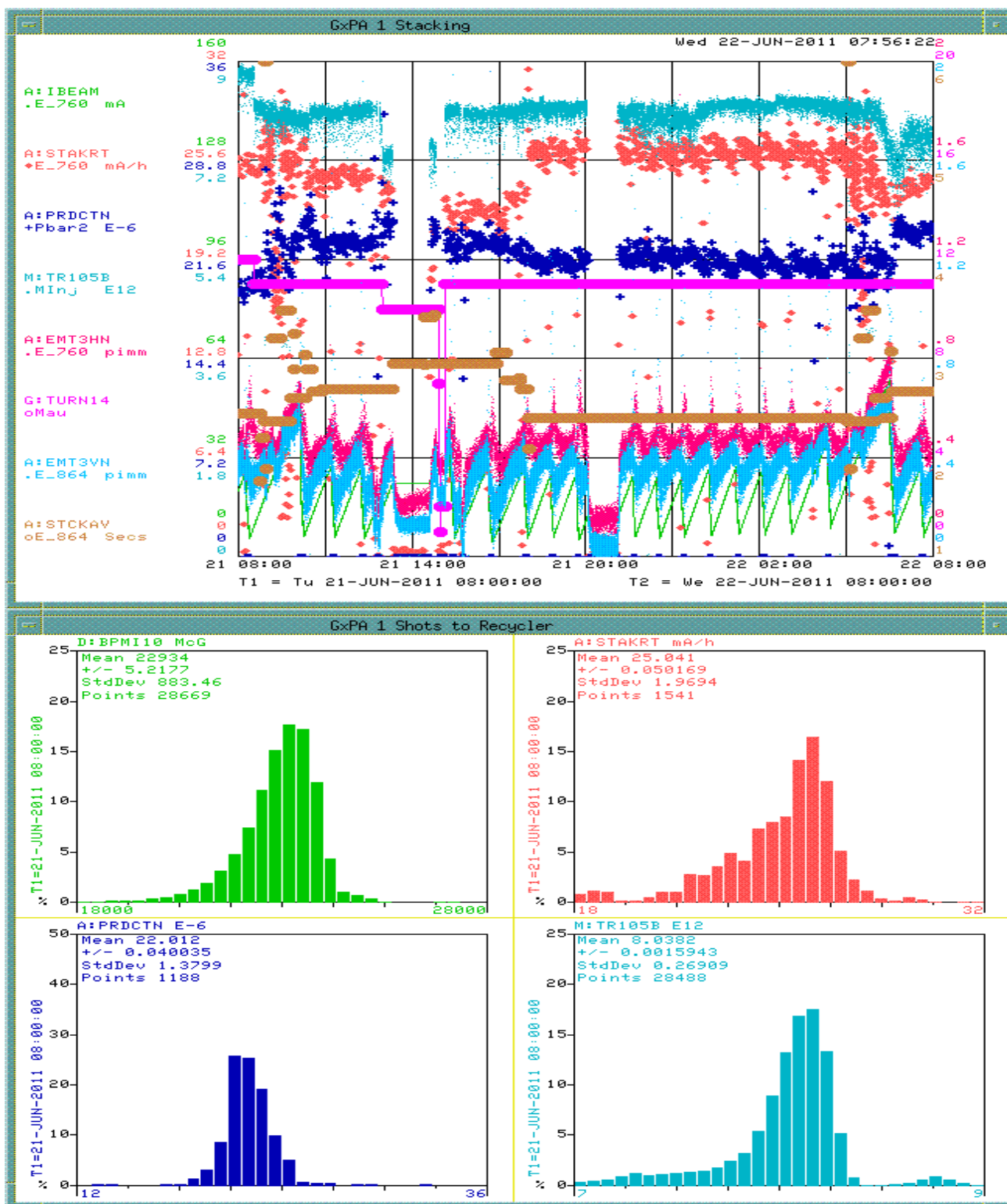
7:44 AM

Numbers

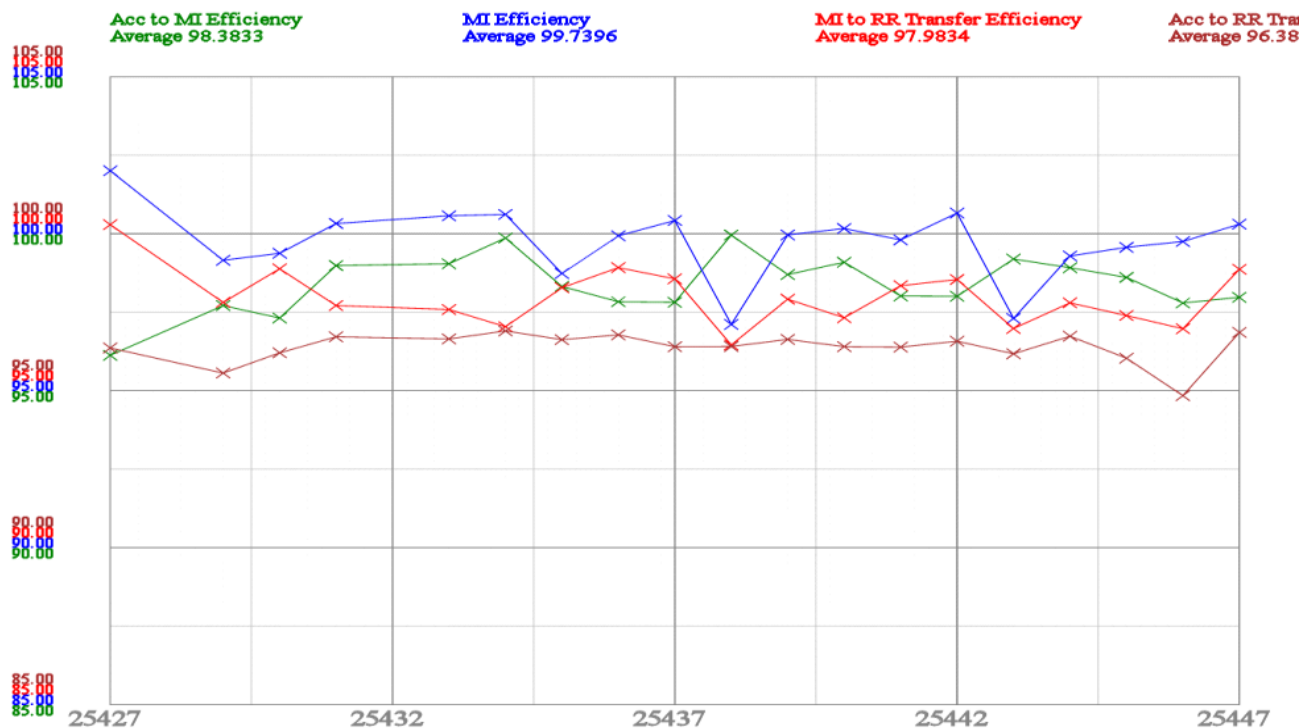
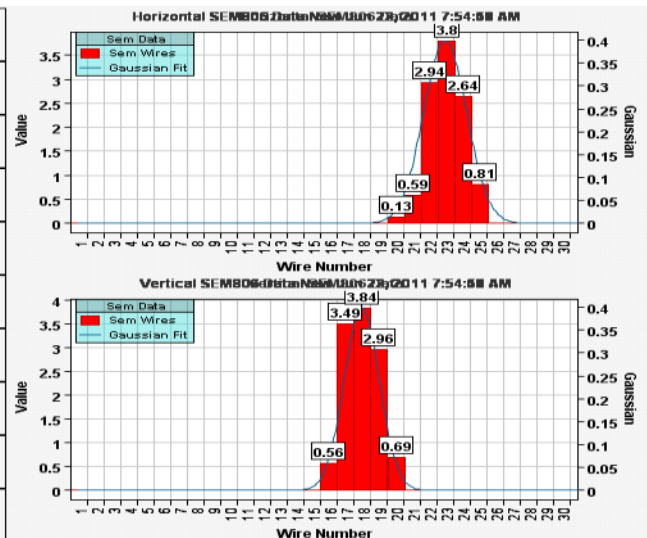
- Stacking
 - Pbars stacked: 510.68 E10
 - Time stacking: 22.47 Hr
 - Average stacking rate: 22.72 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 31532
 - Number of pulses with beam: 28733
 - Fraction of up pulses was: 91.12%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 20.48 Hr
 - Possible average stacking rate: 24.94 E10/Hr
 - Could have stacked: 560.43 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 511.16 E10
 - Number of transfers : 60
 - Number of transfer sets: 20
 - Average Number of transfer per set: 3.00
 - Time taken to shoot including reverse proton tuneup: 00.21 Hr
 - Transfer efficiency: 96.08%
- Other Info
 - Average POT : 8.03 E12
 - Average production: 22.13 pbars/E6 protons

Plots





Horizontal Area New	10.9	Intensity
Horizontal Area Calc	193.35	Intensity
Horizontal Sigma New	3.19	mm
Horizontal Sigma Calc	3.01	mm
Horizontal Mean	23.93	mm
Vertical Area New	11.54	Intensity
Vertical Area Calc	199.58	Intensity
Vertical Sigma New	2.99	mm
Vertical Sigma Calc	2.81	mm
Vertical Mean	8.93	mm



Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A-I BEAMB sampled on \$91 (A-BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on \$94 (A-BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R-B EAMS (R-BEA ME0[0]) pre sfer E10	Column 24 Number _23_R-B EAM (R-BEA ME0[1]) post sfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number_4 Acc Horizontal Emittance	Column 6 Number_5 Acc Vertical Emittance	Column 8 Number_7 Acc Longitudinal Emittance	
	Totals =>			512.27			492.70	96.18%	98.36%	98.11%	96.50%	59	19	4.6934	3.4292	2.0085	
	Daily Average =>			512.27			492.70					59	19				
25447	Wednesday, June 22, 2011	7:32	28.54	6.33	24.69	55.46	79.24	23.90	96.79%	98.26%	98.26%	96.55%	3	1	4.516	3.326	2.02
25446	Wednesday, June 22, 2011	6:30	57.57	7.84	52.85	6.47	55.73	49.73	94.10%	97.53%	96.84%	94.46%	4	1	5.933	4.436	1.961
25445	Wednesday, June 22, 2011	4:20	37.79	9.15	30.67	361.59	390.58	29.43	95.96%	98.67%	98.23%	96.92%	3	1	4.956	3.542	2.005
25444	Wednesday, June 22, 2011	3:00	28.56	7.11	23.91	341.27	364.01	23.11	96.66%	98.75%	98.28%	97.05%	3	1	4.574	3.281	2.046
25443	Wednesday, June 22, 2011	2:04	27.45	6.96	22.97	320.48	342.40	22.13	96.32%	98.75%	96.66%	95.45%	3	1	4.415	3.391	2.017
25442	Wednesday, June 22, 2011	1:12	29.26	7.21	24.20	298.20	321.37	23.38	96.60%	98.22%	99.32%	97.55%	3	1	4.558	3.498	2.032
25441	Wednesday, June 22, 2011	0:15	28.42	6.91	23.67	276.42	298.98	22.81	96.40%	98.17%	98.27%	96.47%	3	1	4.91	3.564	2.012
25440	Tuesday, June 21, 2011	23:18	25.47	6.27	21.32	256.69	277.08	20.56	96.46%	98.52%	98.64%	97.18%	3	1	4.498	3.431	2.018
25439	Tuesday, June 21, 2011	22:27	25.54	6.02	21.58	236.45	257.12	20.85	96.62%	98.55%	98.37%	96.94%	3	1	4.562	3.202	2.028
25438	Tuesday, June 21, 2011	21:37	25.93	6.40	21.69	215.99	236.79	20.92	96.45%	99.72%	97.83%	97.56%	3	1	4.868	3.182	2.024
25437	Tuesday, June 21, 2011	19:41	26.53	5.55	23.11	194.44	216.67	22.34	96.65%	98.40%	99.13%	97.55%	3	1	4.334	3.088	2.018
25436	Tuesday, June 21, 2011	18:47	26.47	6.22	22.39	173.28	194.79	21.69	96.85%	97.91%	97.81%	95.77%	3	1	4.718	3.435	2.028
25435	Tuesday, June 21, 2011	17:52	29.12	5.94	25.65	149.00	173.62	24.79	96.66%	98.18%	97.60%	95.82%	3	1	4.562	3.646	2.017
25434	Tuesday, June 21, 2011	16:39	29.55	4.73	27.15	123.21	149.33	26.29	96.81%	99.76%	99.72%	99.49%	3	1	4.273	2.899	1.959
25433	Tuesday, June 21, 2011	15:20	32.61	5.96	28.96	95.67	123.53	28.00	96.69%	99.25%	99.66%	98.91%	3	1	4.658	3.518	1.981
25431	Tuesday, June 21, 2011	12:14	28.32	5.90	24.94	72.12	96.12	24.11	96.66%	98.82%	98.75%	97.58%	3	1	4.663	3.402	2.018
25430	Tuesday, June 21, 2011	11:12	29.25	6.10	25.71	47.64	72.30	24.74	96.22%	97.74%	97.41%	95.21%	3	1	4.506	3.356	1.997
25429	Tuesday, June 21, 2011	10:07	46.20	6.69	42.90	7.23	47.85	40.85	95.24%	97.86%	96.92%	94.84%	4	1	5.335	3.886	1.978
25427	Tuesday, June 21, 2011	8:16	27.32	6.01	23.93	372.90	395.63	23.10	96.53%	97.02%	98.31%	95.38%	3	1	4.335	3.072	2.003

24 hours

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	Totals =>			385.86			372.69	96.59%	98.51%	98.40%	96.94%	48	16	4.5594	3.3307	2.0136	
	Daily Average =>			385.86			372.69					48	16				
25447	Wednesday, June 22, 2011	7:32	28.54	6.33	24.69	55.46	79.24	23.90	96.79%	98.26%	98.26%	96.55%	3	1	4.516	3.326	2.02
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25431	Tuesday, June 21, 2011	12:14	28.32	5.90	24.94	72.12	96.12	24.11	96.66%	98.82%	98.75%	97.58%	3	1	4.663	3.402	2.018
25430	Tuesday, June 21, 2011	11:12	29.25	6.10	25.71	47.64	72.30	24.74	96.22%	97.74%	97.41%	95.21%	3	1	4.506	3.356	1.997
25427	Tuesday, June 21, 2011	8:16	27.32	6.01	23.93	372.90	395.63	23.10	96.53%	97.02%	98.31%	95.38%	3	1	4.335	3.072	2.003

24 hours, stack size < 30mA